

Notice of Allowability	Application No.	Applicant(s)	
	10/083,655	ORR ET AL.	
	Examiner	Art Unit	
	Duc C. Ho	2665	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address.*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to the application filed 02-27-02.
2. The allowed claim(s) is/are 1, 3-22, 24-43, and 45-58. Renumbered 1-55, respectively.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 11-22-2002
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date 111605.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

EXAMINER 'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Patrick J. Finn on 11-16-05.

The application has been amended as follows:

In the claims:

Claims 2, 23, and 44 are canceled.

Claim 1, line 4, after "signals", insert --- , the composite signal being generated by weighting values of the plurality of signals to form weighted signal values, summing the weighted signal values to form a weighted sum, and setting a value of the composite signal in accordance with an arithmetic sign of the weighted sum ---.

Claim 3, line 1, "claim 2" has been changed to --- claim 1 ---.

Claim 17, line 4, after "signals", insert --- , wherein the majority logic unit weights values of the plurality of signals to form weighted signal values, sums the weighted signal values to form a weighted sum, and sets a value of the composite signal in accordance with an arithmetic sign of the weighted sum ---.

Claim 24, line 1, "claim 23" has been changed to --- claim 17 ---.

Claim 38, line 4, after "signals", insert --- , wherein the means for generating includes: means for weighting values of the plurality of signals to form weighted signal values, means for summing the weighted signal values to form a weighted sum, and means for setting a value of the composite signal in accordance with an arithmetic sign of the weighted sum ---.

Claim 45, line 1, "claim 44" has been changed to --- claim 38 ---.

Reason for Allowance

2. Regarding claims 1, 3-22, 24-43, and 45-58, the prior art fails to teach or suggest a method of multiplexing a plurality of signals to form a constant-envelope composite signal, comprising the steps in which the composite signal being generated by weighting values of the plurality of signals to form weighted signal values, summing the weighted signal values to form a weighted sum, and setting a value of the composite signal in accordance with an arithmetic sign of the weighted sum, in combination with other limitations, as specified in the independent claims 1, 17, and 38.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Ho whose telephone number is (571) 272-3147.

The examiner can normally be reached on Monday through Friday from 7:00 am to 3:30 pm.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (571) 272-3155.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner



Duc Ho

11-16-05